

WHAT IS CLAIMED IS:

1. A refrigerator door comprising:  
an outer case forming a front appearance of the  
5 refrigerator door;  
an inner case forming a rear appearance of the  
refrigerator;  
an insulation layer formed between the outer case and the  
inner case;  
10 a dispenser detachably coupled to a front surface of the  
outer case and including a housing, which forms an external  
appearance of the dispenser and is formed with a recess  
section; and  
an external plate section coupled to the front surface of  
15 the outer case except for an area in which the dispenser is  
installed, in order to form an external appearance of the  
refrigerator door.

2. The refrigerator door as claimed in claim 1, wherein  
20 mounting frames having mounting slots are provided at both side  
ends of the refrigerator door, and both side ends of the  
external plate section are inserted into the mounting slots of  
the mounting frames.

25 3. The refrigerator door as claimed in claim 1, wherein a

mounting bracket having a recess part corresponding to the recess section of the housing is coupled to the front surface of the outer case, and the housing is coupled to the mounting bracket by means of mounting protrusions and a protrusion  
5 receiving section formed in the housing and the mounting bracket, respectively, thereby coupling the dispenser to the outer case.

4. The refrigerator door as claimed in claim 3, wherein  
10 one side end of the housing is rotatably coupled to the mounting bracket.

5. The refrigerator door as claimed in claim 4, wherein the housing is formed at upper and lower ends thereof with  
15 insertion slots into which edge parts of the external plate section are inserted.

6. The refrigerator door as claimed in claim 1, wherein an actuating lever is installed in the recess section of the  
20 housing for a discharge operation of water or ice cubes from the dispenser, and a driving lever is installed rearward of the recess section so as to open/close a water port or an ice cube port according to actuating force of the actuating lever transferred thereto through an engagement bar.

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7. The refrigerator door as claimed in claim 6, wherein the driving lever is installed at a lever resting section formed in the mounting bracket provided between a rear surface of the housing and the outer case.

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8. The refrigerator door as claimed in claim 6, wherein the engagement bar rearwardly extends from a rear surface of the actuating lever by passing through a rear wall of the recess section and makes contact with the driving lever.

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9. The refrigerator door as claimed in claim 6, wherein at least one guide bar is provided at the rear surface of the actuating lever and the guide bar passes through a perforated hole formed in the rear wall of the recess section in order to  
15 guide a movement of the actuating lever.

10. The refrigerator door as claimed in claim 6, wherein the recess section of the housing is formed at a top thereof with an opening section for allowing water or ice cubes  
20 discharged from the water port or the ice cube port to be introduced into the recess section.

11. A refrigerator door comprising:  
an outer case forming a front appearance of the  
25 refrigerator door;

an inner case forming a rear appearance of the refrigerator;

an insulation layer formed between the outer case and the inner case;

5 first and second mounting frames installed at both side ends of the refrigerator door and having first and second mounting slots longitudinally formed in the first and second mounting frames in opposition to each other;

a dispenser detachably coupled to a front surface of the  
10 outer case and including a housing, which forms an external appearance of the dispenser and is formed with a recess section, both ends of the dispenser being inserted into the first and second mounting slots; and

an external plate section coupled to the front surface of  
15 the outer case except for an area in which the dispenser is installed, in order to form an external appearance of the refrigerator door, both side end portions of the external plate being inserted into the first and second mounting slots of the first and second mounting frames.

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12. The refrigerator door as claimed in claim 11, wherein the dispenser includes the housing forming the external appearance of the dispenser and having the recess section formed at a top thereof with an opening section, a discharge  
25 port for discharging water or ice cubes towards the recess

section through the opening section of the housing, a mounting bracket installed in the outer case and coupled to the housing with a shape corresponding to a shape of the housing, an actuating lever installed in the recess section of the housing  
5 for a discharge operation of water or ice cubes, and a driving lever provided between the mounting bracket and the housing in order to open/close the discharge port according to actuating force of the actuating lever.

10 13. The refrigerator door as claimed in claim 12, wherein the housing has mounting protrusions, the mounting bracket has a protrusion receiving section corresponding to the mounting protrusions, and the housing is coupled to the mounting bracket by means of the mounting protrusions and the protrusion  
15 receiving section.

14. The refrigerator door as claimed in claim 13, wherein one side portion of the housing is rotatably coupled to the mounting bracket.

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15. The refrigerator door as claimed in claim 12, wherein an engagement bar is provided between the actuating lever and a lower portion of the driving lever so as to transfer actuating force of the actuating lever to the driving lever, and at least  
25 one guide bar is integrally formed with a rear surface of the

actuating lever, the guide bar being positioned in a perforated hole formed in a rear wall of the recess section of the housing.

5           16. The refrigerator door as claimed in claim 12, wherein the housing is formed at upper and lower ends thereof with insertion slots into which edge parts of the external plate section are inserted.

10           17. The refrigerator door as claimed in claim 12, further comprising a water bucket installed at a bottom of the recess section of the housing.

          18. A refrigerator door comprising:  
15           an outer case forming a front appearance of the refrigerator door;  
          an inner case forming a rear appearance of the refrigerator;  
          an insulation layer formed between the outer case and the  
20   inner case;  
          a dispenser detachably coupled to a front surface of the outer case and including a housing, which forms an external appearance of the dispenser and is formed with a recess section having an opening section for allowing water or ice cubes  
25   discharged from the water port or the ice cube port to be

introduced into the recess section; and

an external plate section coupled to the front surface of the outer case except for an area in which the dispenser is installed, in order to form an external appearance of the refrigerator door.

19. The refrigerator door as claimed in claim 18, wherein a mounting bracket having a recess part corresponding to the recess section of the housing is coupled to the front surface of the outer case, and the housing is coupled to the mounting bracket by means of mounting protrusions and a protrusion receiving section formed in the housing and the mounting bracket, respectively, thereby coupling the dispenser to the outer case, and the mounting bracket having an opening section formed at a top of the recess part of corresponding the opening section of the housing.

20. The refrigerator door as claimed in claim 18, wherein the housing is formed at upper and lower ends thereof with insertion slots into which edge parts of the external plate section are inserted.

21. The refrigerator door as claimed in claim 18, wherein an actuating lever is installed in the recess section of the housing for a discharge operation of water or ice cubes from

the dispenser, and a driving lever is installed rearward of the recess section so as to open/close a water port or an ice cube port according to actuating force of the actuating lever transferred thereto through an engagement bar.

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22. The refrigerator door as claimed in claim 21, wherein the driving lever is installed at a lever resting section formed in the mounting bracket provided between a rear surface of the housing and the outer case.

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23. The refrigerator door as claimed in claim 21, wherein the engagement bar rearwardly extends from a rear surface of the actuating lever by passing through a rear wall of the recess section and makes contact with the driving lever.

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24. The refrigerator door as claimed in claim 21, wherein at least one guide bar is provided at the rear surface of the actuating lever and the guide bar passes through a perforated hole formed in the rear wall of the recess section in order to  
20 guide a movement of the actuating lever.